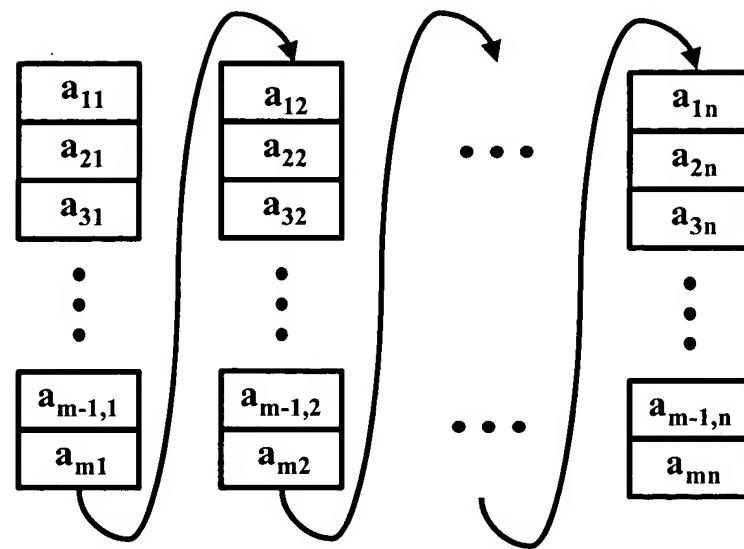


**FIG. 1**



**FIG. 2**

### **Row-oriented algorithm:**

```
nrows = 32768; ncolumns = 1024;  
A = rand(nrows, ncolumns);  
B = zeros(size(A));  
v = rand(1, ncolumns);  
tic, for j = 1:nrows  
    B(j, :) = A(j, :).* v;  
end, toc
```

### **Column-oriented algorithm:**

```
nrows = 1024; ncolumns = 32768;  
A = rand(nrows, ncolumns);  
B = zeros(size(A));  
v = rand(nrows, 1);  
tic, for j = 1:ncolumns  
    B(:,j) = A(:,j).* v;  
end, toc
```

**FIG. 3**

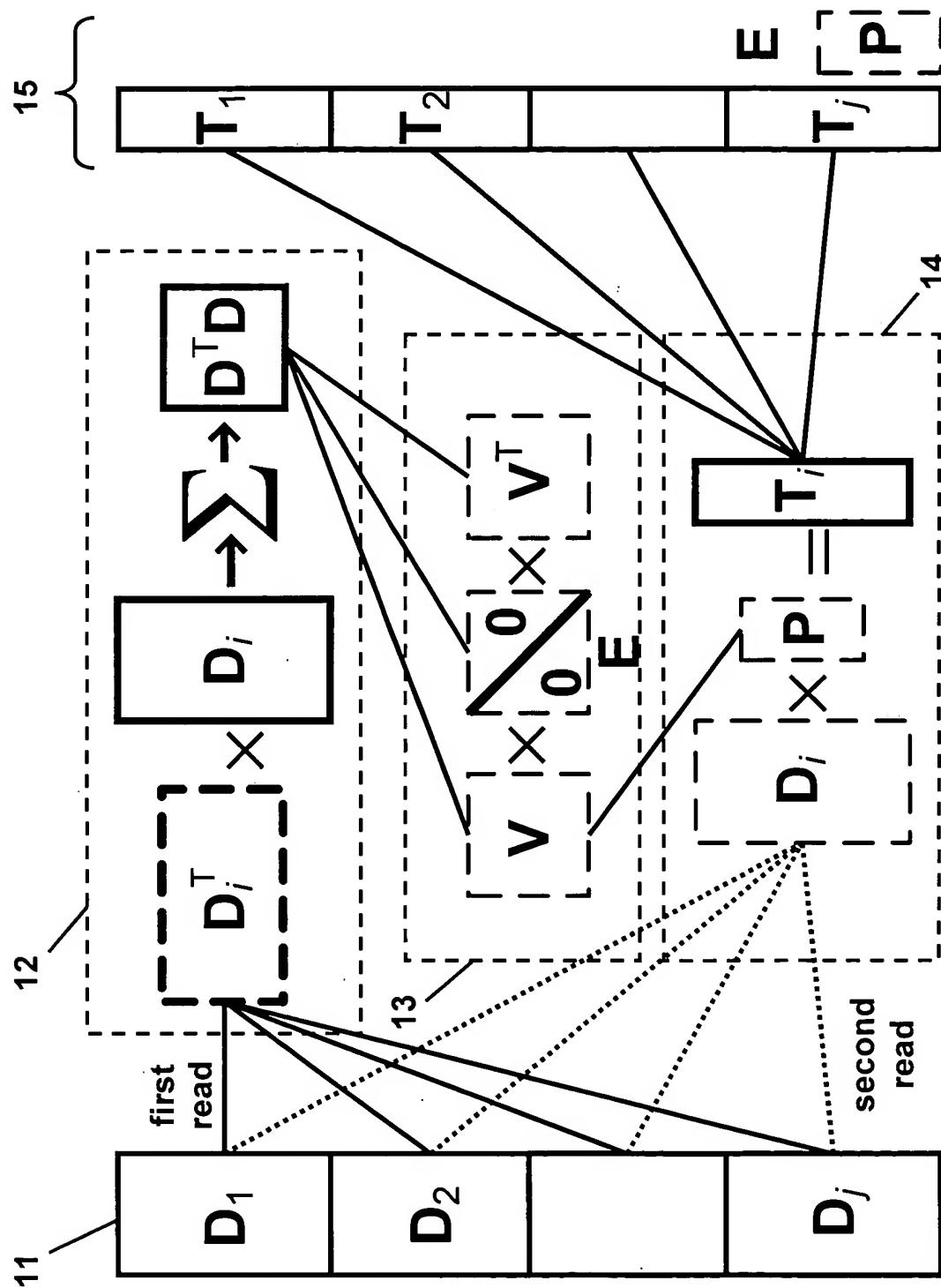


FIG. 4

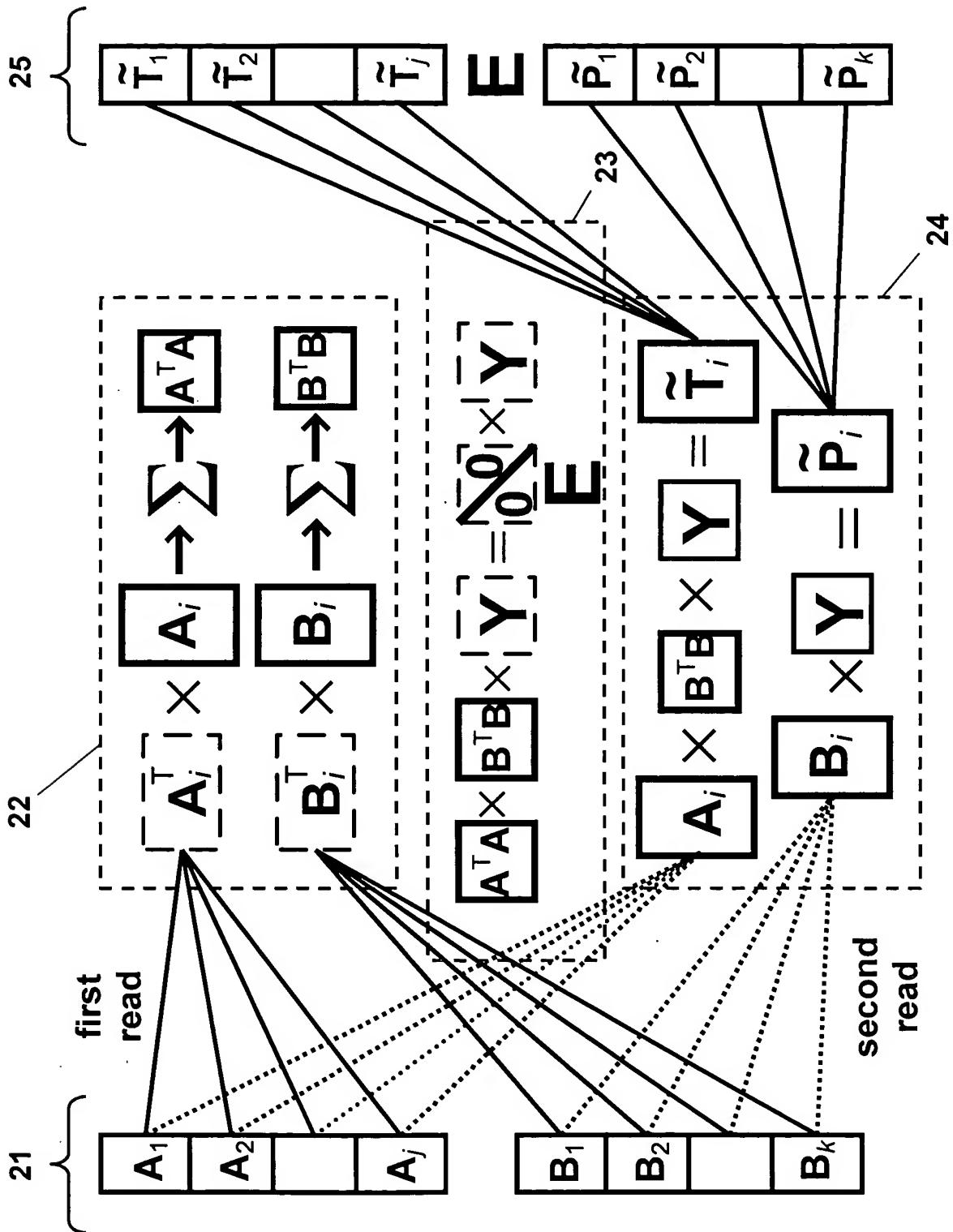
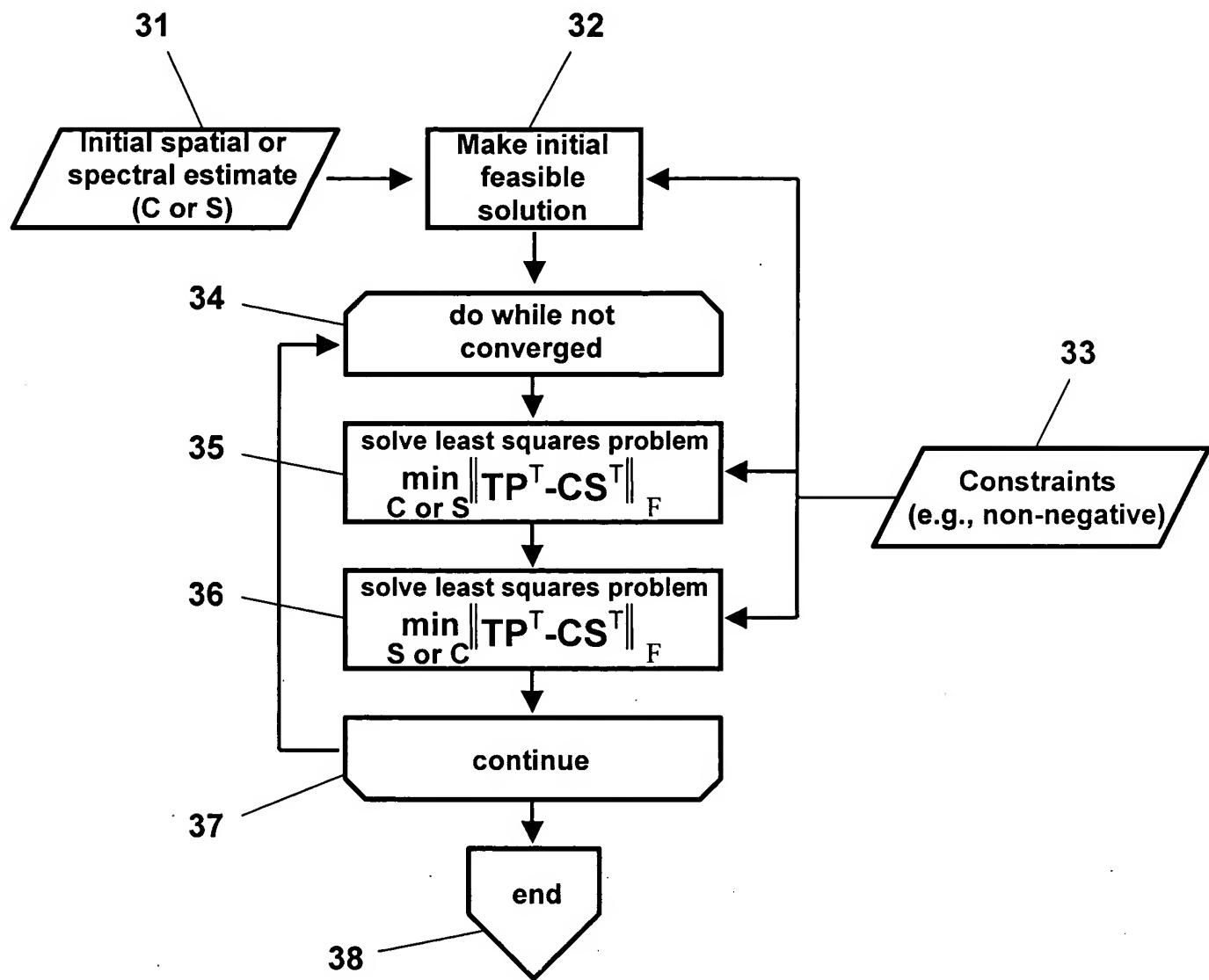
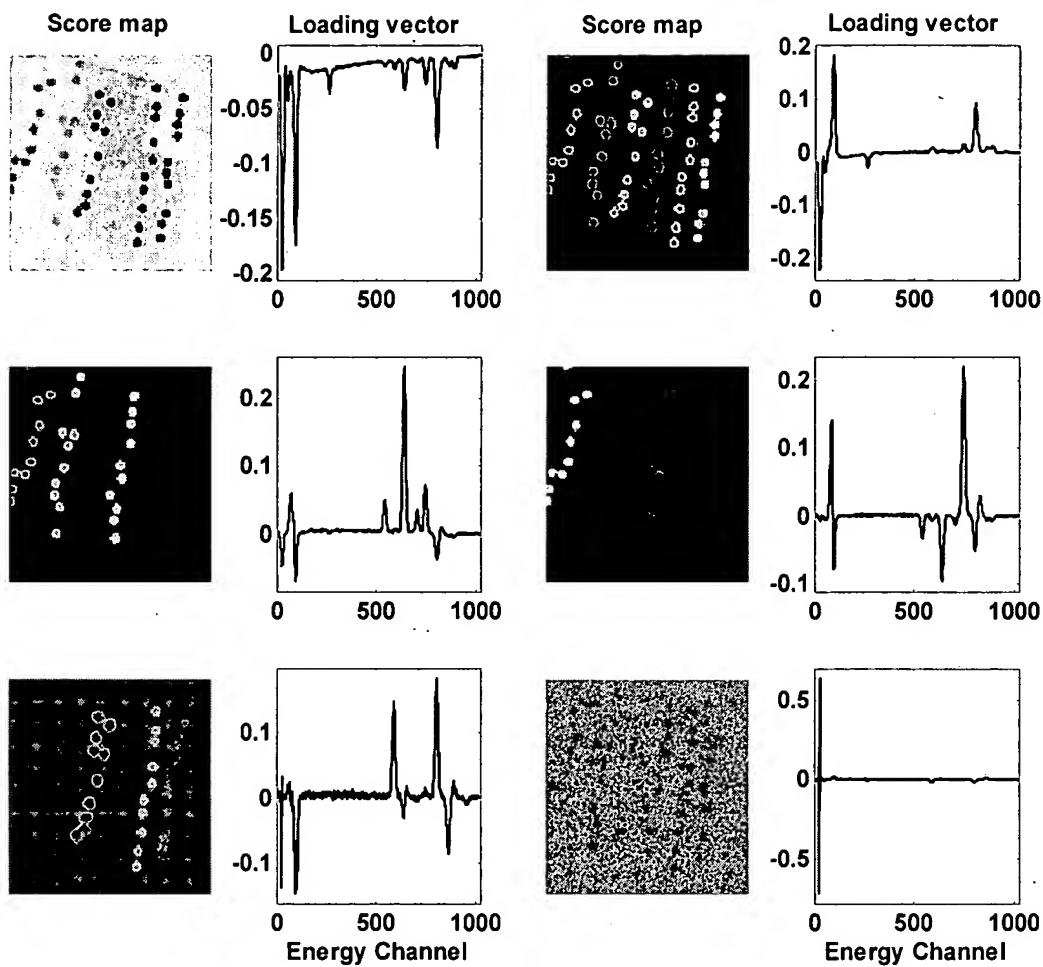


FIG. 5

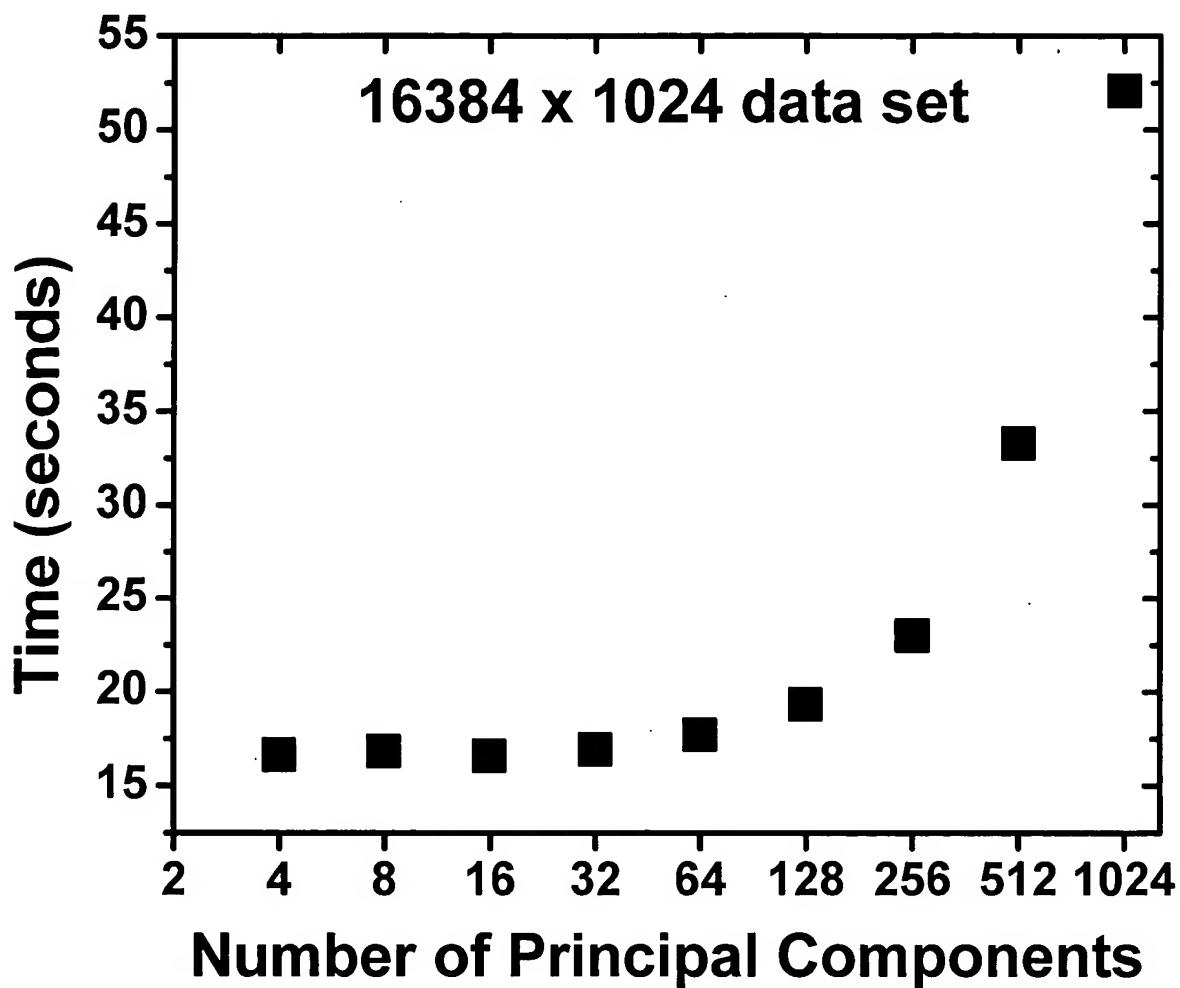


**FIG. 6**

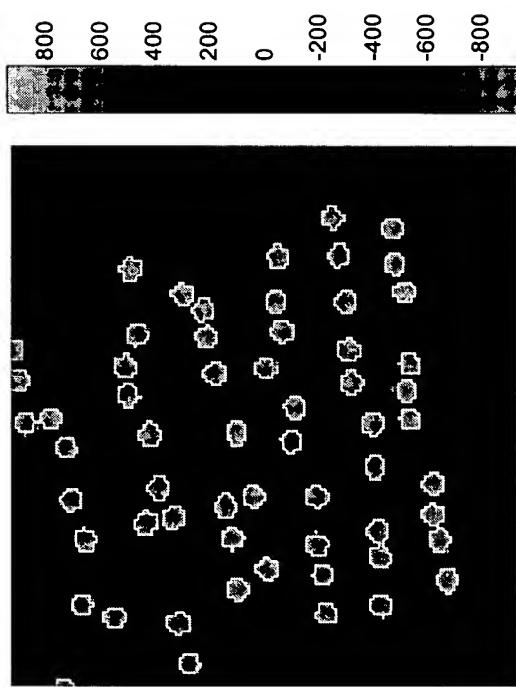
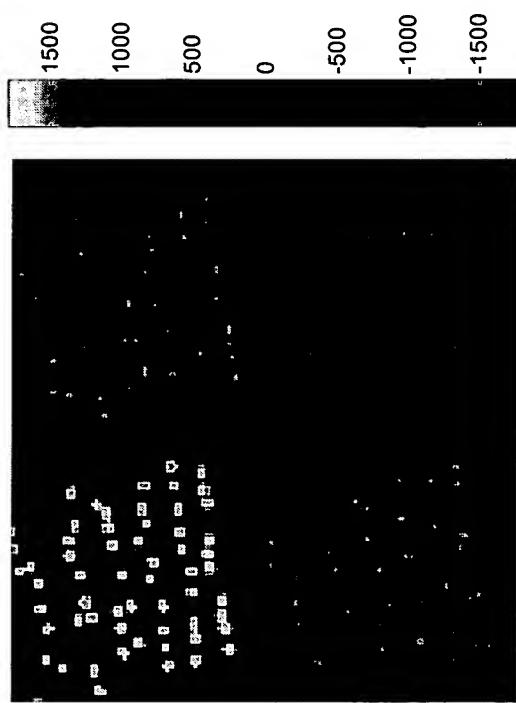


**FIG. 7**

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**FIG. 8**



**FIG. 9B**

**FIG. 9A**

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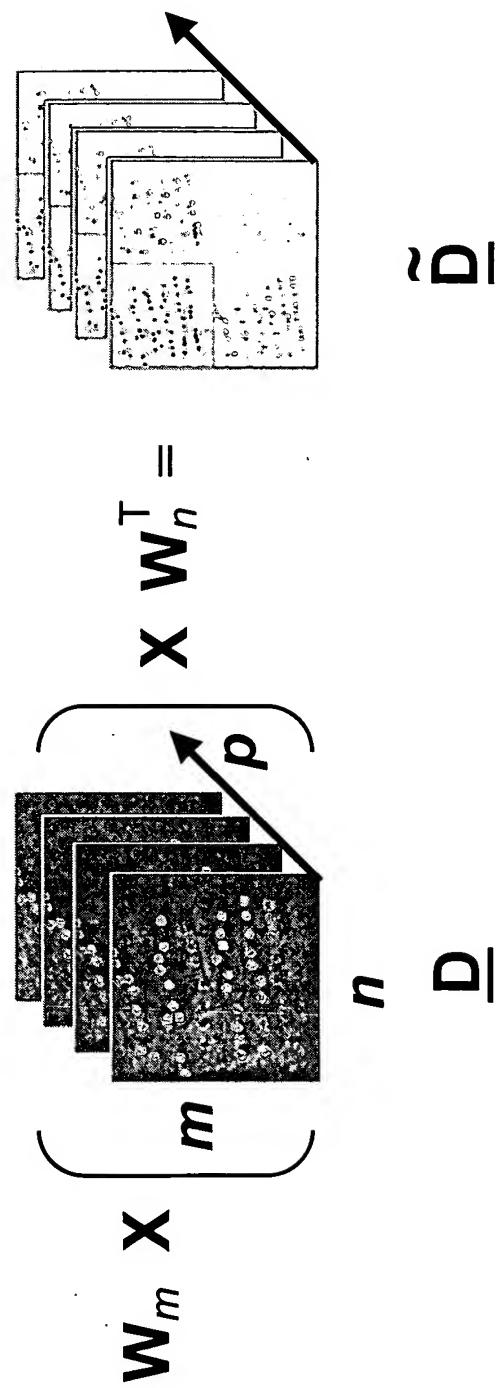


FIG. 10

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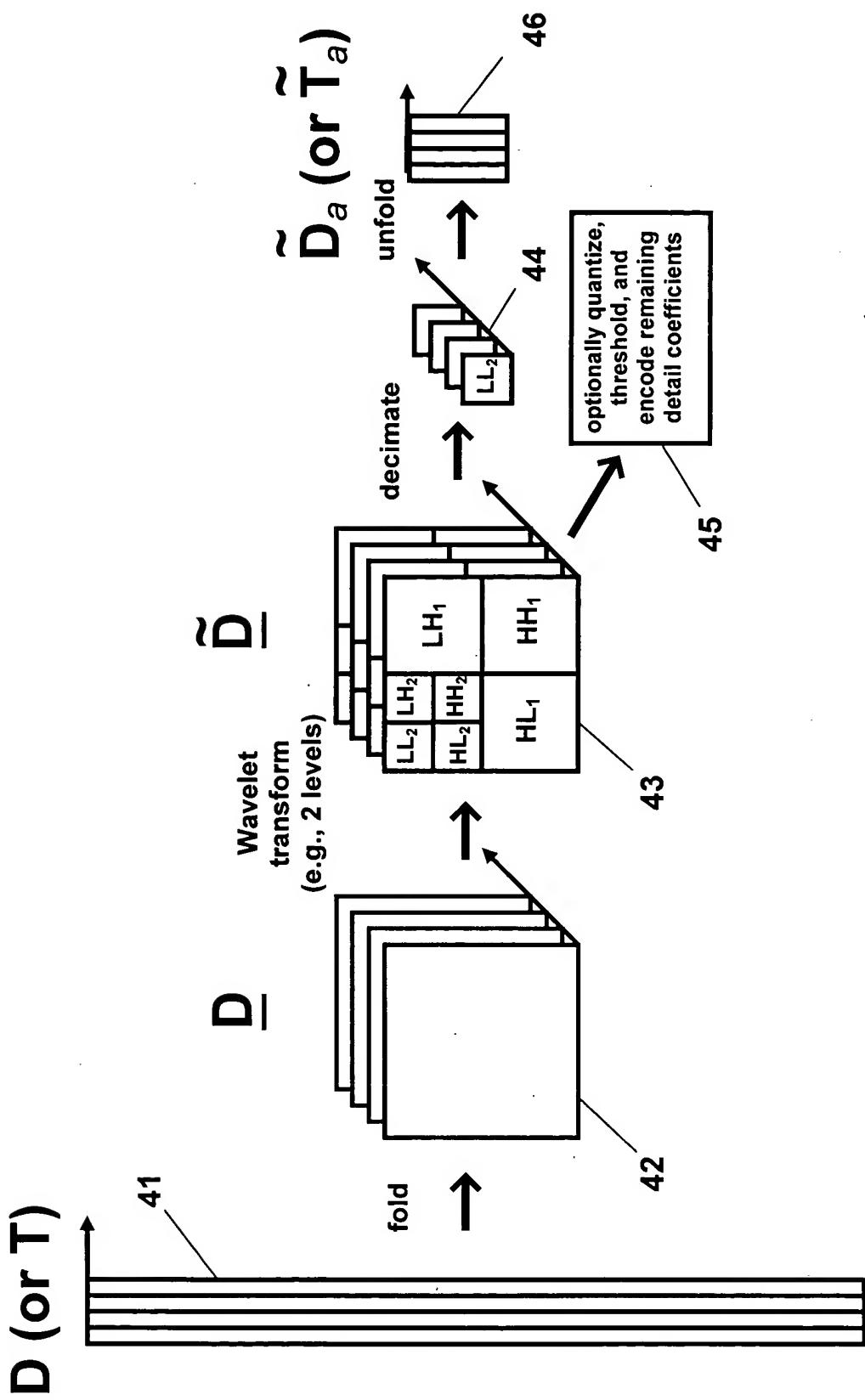
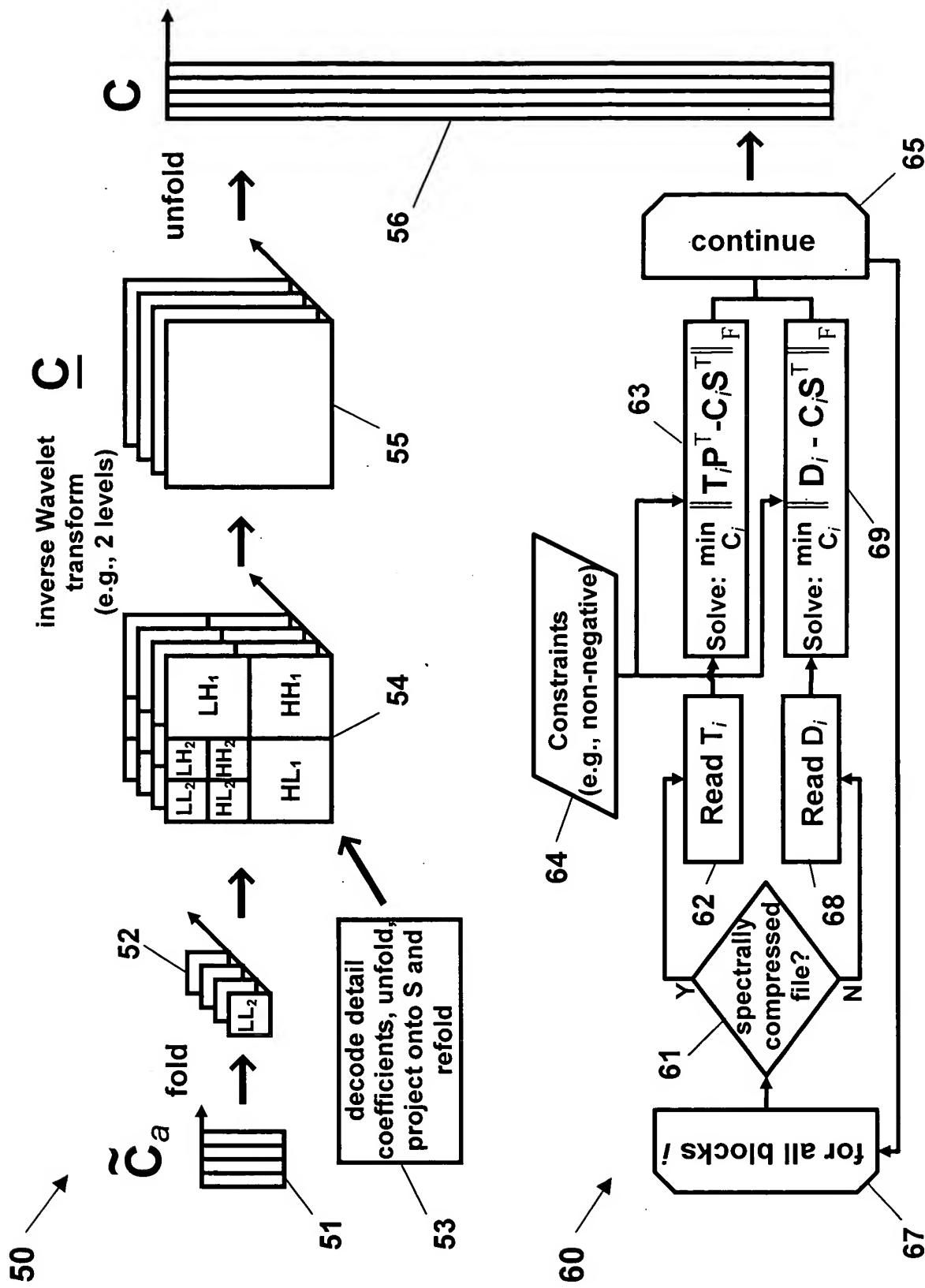


FIG. 11



**FIG. 12**

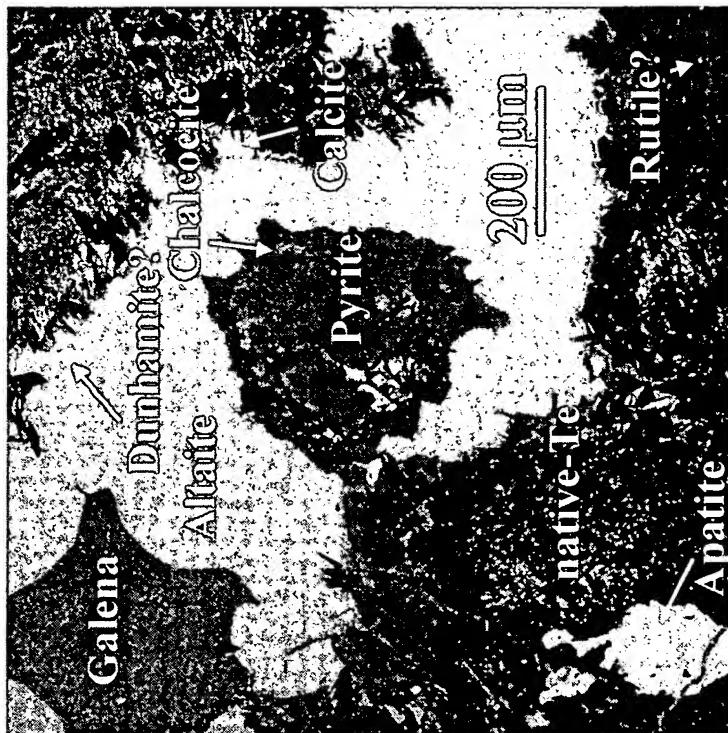


FIG. 13B



FIG. 13A

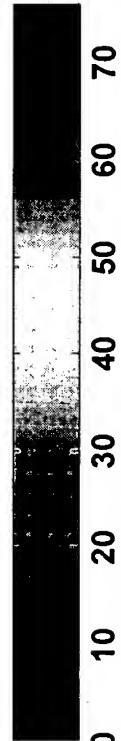
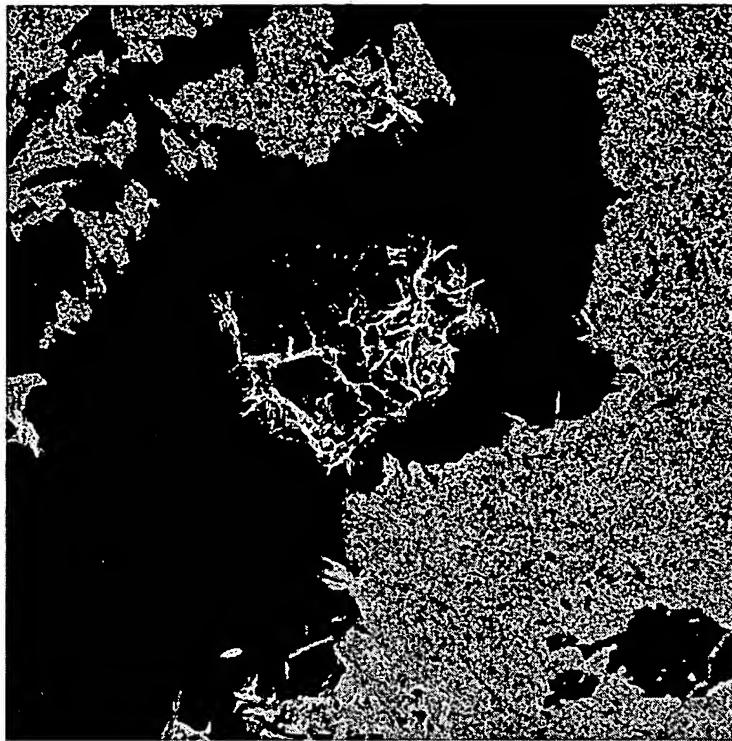


FIG. 13D

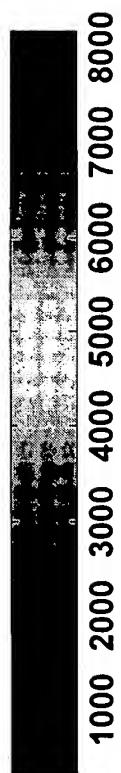
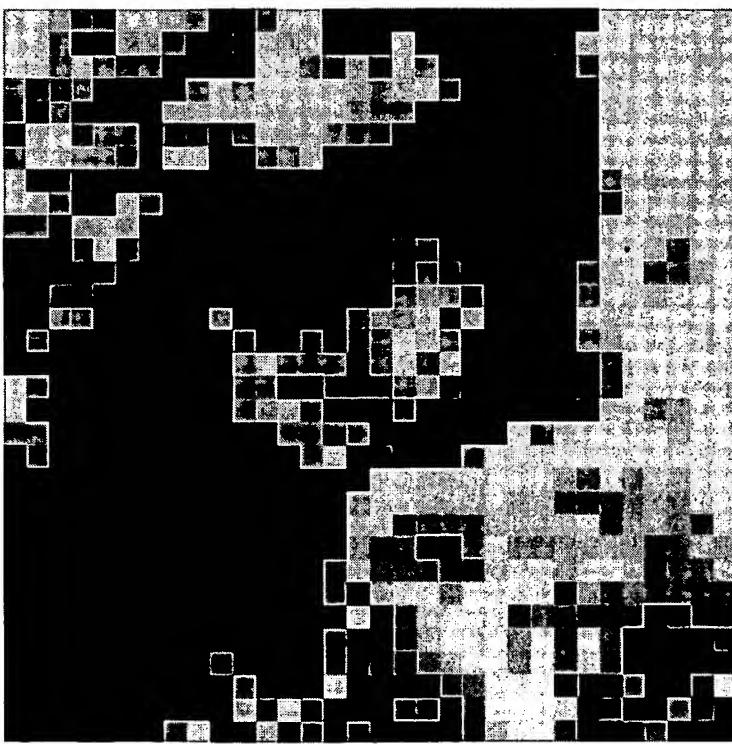
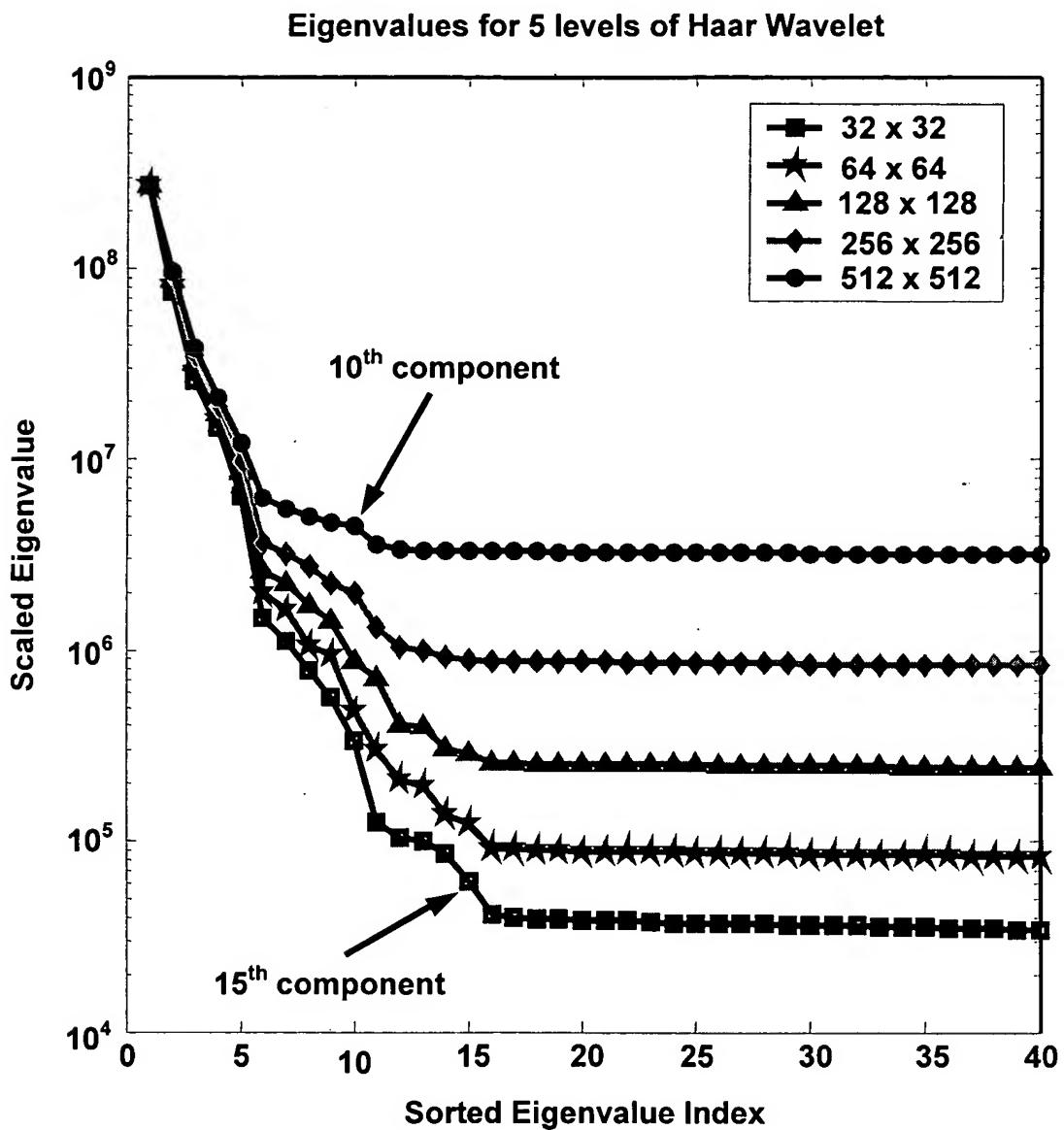


FIG. 13C

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**FIG. 14**

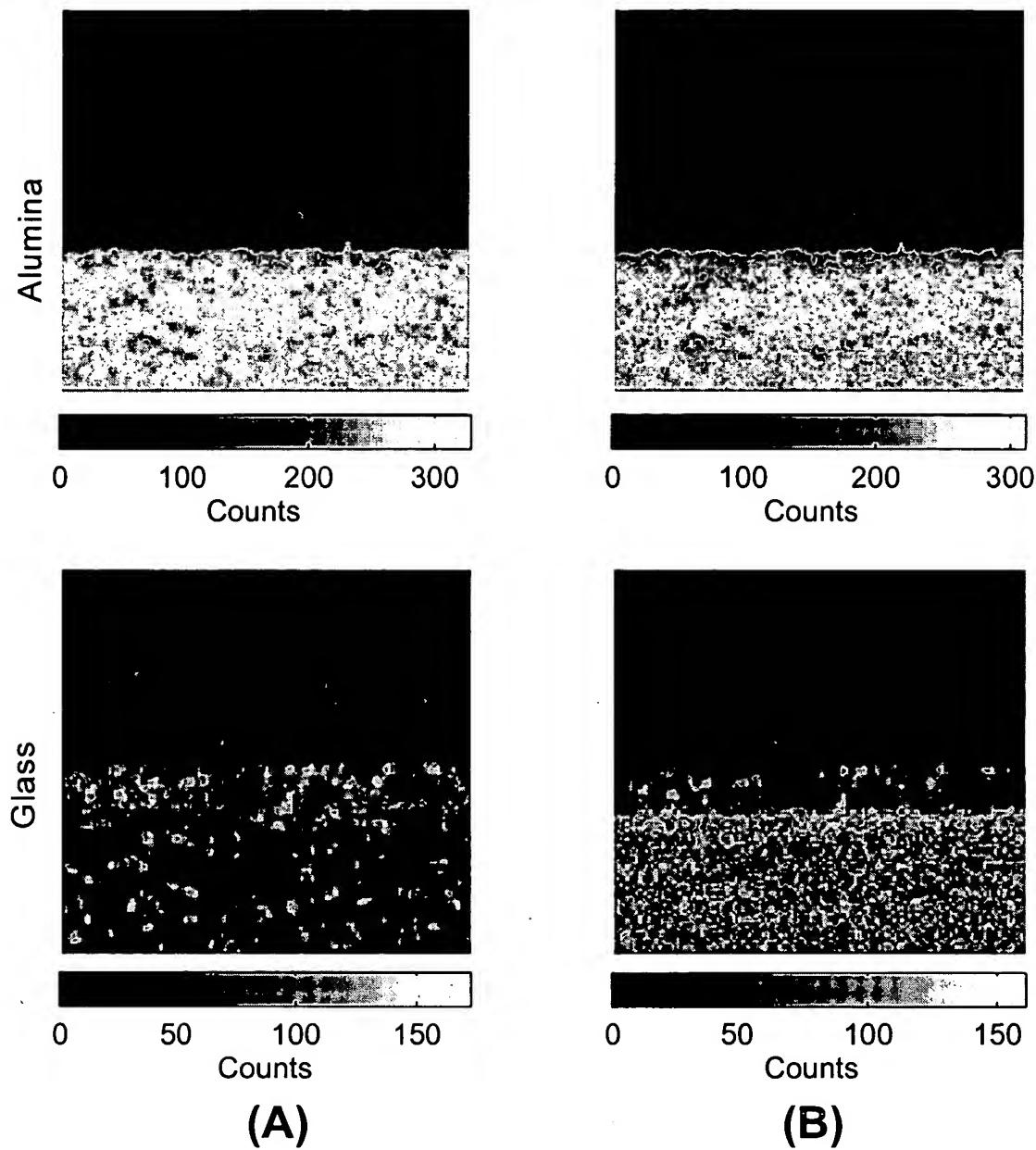


FIG. 15

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